

Substitute for Form PTO-1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Attorney Docket Number: 3002.EEM <div style="text-align: center; font-weight: bold;">D</div>		Application No.:	
Sheet 1 of 1		EXAMINER NAME:		Group Art:	
		First Named Inventor: OSAMA M. MUSA			
		Filing Date: 06 JAN 04			

U.S. PATENT DOCUMENTS							
*Examiner Initials	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Pub. Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document			Pages
<i>ke</i> <i>ke</i>		US- 4,225,691	9/30/80	J. V. Crivello	_____ _____ _____		
		US- 2002/0089067	7/11/02	L. N. Crane et al.			
		US- 2002/0143112	10/3/02	R. J. Welner et al.			
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FOREIGN PATENT DOCUMENTS							
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<i>ke</i> <i>ke</i>		WO 02/06038-02 <i>WD 02/06038 A2</i>	24.01.02	J. Kloosterboer et al.	_____ _____ _____		
		WO 02/06038-03 <i>WD 02/06038 A3</i>	24.01.02	J. Kloosterboer et al.			
		WO 02/38985 <i>WD 02/38985 A1</i>	11.04.02	J. LUB			
		JP2001329112	11/27/01	N. Kunihiro et al.			

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	Filing Date	06 JAN 04
	First Named Inventor	OSAMA M. MUSA
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Sheet <u>1</u> of <u>7</u>	Attorney Docket Number	3002 EEM

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item, (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
See	✓	LEDWITH, ANTHONY: "Possibilities for promoting cationic polymerization by common sources of free radicals"; <u>Polymer</u> 1970 Vol. 19; October pgs. 1217-1222, <u>October 1978</u> .	
	✓	SASAKI, HIROSHI et al.: "Photoinitiated Cationic Polymerization of Oxetane Formulated with Oxirane"; <u>Journal of Polymer Science Part A</u> ; Vol. 33; 1995 pgs. 1807-1816, <u>1995</u> .	
	✓	SEARLES, SCOTT et al.: "Hydrogen Bonding Ability and Structure of Ethylene Oxides"; This Journal; 73, 3704, 1954 <u>2775 - 2777, June 1953</u> .	
	✓	XIANMING, HU et al.: "Phase-Transfer Synthesis of Optically Pure Oxetanes Obtained from 1,2,2-Trisubstituted 1,3-Propanediols"; <u>Synthesis</u> May 1995 pgs. 533-538, <u>May 1995</u> .	
	✓	FUJIWARA, TOMOKO et al.: "Synthesis and Characterization of Novel Oxetane Macromonomers"; <u>Polymer Preprints</u> 2003 <u>44(1), 785, 2003</u> .	
	✓	DHAVALIKAR, R. et al.: "Molecular and Structural Analysis of a Triepoxide-Modified Poly(ethylene terephthalate) from Rheological Data"; <u>Journal of Polymer Science: Part A: Polymer Chemistry</u> ; Vol. 41, 958-969 (2003); pgs. 958-969 .	
See	✓	SATO, TOSHIFUMI et al.: "A Novel Ladder Polymer. Two-Step Polymerization of Oxetanyl Oxirane Leading to a "Fused 15-Crown-4 Polymer" Having a High Li ⁺ -Binding Ability"; <u>Macromolecules</u> 2003 <u>36, 1522-1525, 2003</u> .	

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lec	✓	CHEN, YU et al.: "Synthesis of Multihydroxyl Branched Polyethers by Cationic Copolymerization of 3,3-Bis(hydroxymethyl)oxetane and 3-Ethyl-3-(hydroxymethyl)oxetane"; <u>Journal of Polymer Science: Part A: Polymer Chemistry</u> , Vol. 40, 1991-2002; 2002 Wiley Periodicals, Inc.	
	✓	NISHIMURA, TOMONARI et al.: "Chemoselective isomerization of amide-substituted oxetanes with Lewis acid to give oxazine derivatives or bicyclic amide acetals"; <u>Chem. Commun.</u> , 1998, Pgs. 43-44, 1998	
	✓	MIWA, YOSHIYUKI et al.: "Polymerization of Bis-Oxetanes Consisting of Oligo-Ethylene Oxide Chain with Lithium Salts as Initiators"; <u>Polym. J.</u> , Vol 33, No. 8, 2001, Pgs. 568-574, 2001.	
	✓	ICHIKAWA, EIKO et al.: "Synthesis of Oxetanocin A and Related Unusual Nucleosides with Bis(hydroxymethyl)-branched Sugars"; <u>Synthesis</u> 2002, No. 1, 28/12/2001; Georg Thieme Verlag Stuttgart, NY; Pgs. 1-28.	
	✓	MINEGISHI, SHOUJI et al.: "Synthesis of Polyphosphonates Containing Pendant Chloromethyl Groups by the Polyaddition of Bis(oxetanes)s with Phosphonic Dichlorides"; <u>Journal of Polymer Science: Part A: Polymer Chemistry</u> , Vol. 40 3835-3846; 2002 Wiley Periodicals, Inc.	
	✓	SASAKI, HIROSHI et al.: "Photoinitiated Cationic Polymerization of Oxetane Formulated with Oxirane"; <u>Journal of Polymer Science: Part A: Polymer Chemistry</u> , Vol. 33, 1807-1816; 1995 John Wiley & Sons, Inc.	
lec	✓	ROSENBAUM, DR. BARRY et al.: "Develop Better Coatings"; OMNOVA Solutions Inc., Akron, OH; Pgs. 1-5, December 2002.	

Examiner Signature #54519	<i>[Signature]</i>	Date Considered	3/5/05
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	Group Art Unit	
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	Attorney Docket Number	D 3002.EEM

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lu	✓	SASAKI, HIROSHI: "Application of Oxetane Monomers for UV-Curable Materials"; RadTech 2002; Tech. Conf. Proceedings; Pgs. 64-78, 2002.	
	✓	CARTER, WELLS et al.: "NEW OXETANE DERIVATIVE REACTIVE FILUENT FOR CATIONIC UV CURE"; RadTech 2000; Tech. Proceed.; Pgs. 641-649, 2000.	
	✓	CRIVELLO, J. V. et al.: "Diaryliodonium Salts as Thermal Initiators of Cationic Polymerization"; Journal of Polymer Science: Polymer Chemistry Ed, Vol. 21, 97-109 (1983); John Wiley & Sons, Inc.	
	✓	LU, YONG-HONG et al.: "Synthesis of Side-Chain Liquid Crystalline Polyoxetanes Containing 4-(Alkanyloxy)phenyl <i>trans</i> -4-Alkylcyclohexanoate Side Groups"; 1995 American Chem. Society, <u>Macromolecules</u> , Pgs. 1673-1680, 1995.	
	✓	LU, YONG-HONG et al.: "Synthesis of side-chain liquid crystalline polyoxetanes containing 4-dodecanyloxyphenyl <i>trans</i> -4-alkylcyclohexanoate side groups"; Polymer Bulletin 32, 551-558 (1994); Springer-Verlag.	
	✓	HSU, LI-LING et al.: "Studies on the Synthesis and Properties of Ferroelectric Side Chain Liquid Crystalline Polyoxetanes"; Journal of Polymer Science: Part A: Polymer Chemistry; Vol. 35, 2843-2855; (1997); John Wiley & Sons, Inc.	
lu	✓	KAWAKAMI, YUSUKE et al.: "Synthesis and Thermal Transition of Side-chain Liquid Crystalline Polyoxetanes Having Laterally Attached Mesogenic Group"; Polymer International; 0959-8103/93; Great Britain: 31, 35-40 (1993).	

Examiner Signature #54520	<i>[Signature]</i>	Date Considered	3/15/04
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Sheet 4 of 7	Attorney Docket Number	D 3002.EEM

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lee	✓	KAWAKAMI, YUSUKE et al.: "Synthesis of Liquid Crystalline Polymers with a Polyoxetane Main Chain"; <u>Macromolecules</u> ; Vol. 24, No. 16, 1991; Pgs. 4531-4537, 1991.	
	✓	KAWAKAMI, YUSUKE et al.: "Smectic liquid crystalline polyoxetane with novel mesogenic group"; <u>Polymer Bulletin</u> 25; Springer-Verlag 1991; Pgs. 439-442.	
	✓	CRIVELLO, J.V. et al.: "Photoinitiated Cationic Polymerization With Multifunctional Vinyl Ether Monomers"; <u>Journal of Radiation Curing</u> , January 1983; Pgs. 6-13.	
	✓	ISHIZONE, TAKASHI et al.: "Protection and Polymerization of Functional Monomers. 29. Syntheses of Well-Defined Poly[(4-vinylphenyl)acetic acid], Poly[3-(4-vinylphenyl)propionic acid], and Poly(3-vinylbenzoic acid) by Means of Anionic Living Polymerizations of Protected Monomers Bearing Bicyclic Ortho Ester Moieties"; <u>Macromolecules</u> 1999, 32, 1453-1462, 1999.	
	✓	SATO, KAZUYA et al.: "New Reactive Polymer Carrying a Pendant Oxetane Ring"; <u>Macromolecules</u> 1992, 25, 1198-1199; 1992. Communications to the Editor.	
	✓	MOUSSA, K. et al.: "Light-Induced Polymerization of New Highly Reactive Acrylic Monomers"; <u>Journal of Polymer Science: Part A: Polymer Chemistry</u> , Vol. 31, 2197-2203 (1993); John Wiley & Sons, Inc.	
lee	✓	KAWAKAMI, YUSUKE et al.: "Synthesis of Liquid Crystalline Polyoxetanes Bearing Cyanobiphenyl Mesogen and Siloxane-Containing Substituent in the Repeating Unit"; <u>Polymer Journal</u> , Vol. 28, No. 10, pp 845-850 (1996).	

Examiner Signature #54521		Date Considered	2/15/05
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Sheet 5 of 7	Attorney Docket Number	D 3002.EEM

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ic		✓ CRIVELLO, J. V. et al.: "Synthesis and Photopolymerization of Silicon-Containing Multifunctional Oxetane Monomers"; <u>J.M.S.-Pure Appl. Chem.</u> , A30(2 & 3), pp.173-187 (1993); Marcel Dekker, Inc.	
		✓ CHAPPELOW, C. C. et al.: "Photoreactivity of Vinyl Ether/Oxirane-Based Resin Systems"; <u>Journal of Applied Polymer Science</u> , Vol. 86, 314-326 (2002); Wiley Periodicals, Inc.	
		✓ TOAGOSEI CO. LTD.: "Developing Monomers". "Oxetane"; Copyright 2000 American Chemical Society.	
		✓ HOU, JIAN et al.: "Synthesis of a Star-Shaped Copolymer with a Hyperbranched Poly(3-methyl-3-oxetanemethanol) Core and Tetrahydrofuran Arms by One-Pot Copolymerization"; <u>Macromol. Rapid Commun.</u> 2002, 23, 456-459.	
		✓ Xu, Jun et al.: "Study On Cationic Ring-Opening Polymerization Mechanism of 3-Ethyl-3-Hydroxymethyl Oxetane"; <u>J. Macromol. Sci.-Pure Appl. Chem.</u> , A39(5), 431-445 (2002); Marcel Dekker, Inc.	
		✓ SUZUKI, HIROSHI et al.: "Photo-cationic curable materials using cationic polymerizable monomers such as epoxides and vinyl ether derivatives"; <u>Polymer Preprints</u> 2001, 42(2), 733, 2001.	
		✓ KANO, SHIGEYOSHI et al.: "Monomer-Isomerization Polymerization of 3-Methyl-3-(phthalimidomethyl)oxetane with Two Different Ring-Opening Courses"; <u>Macromolecules</u> 1999, 32, 2438-2448; 1999. American Chemical Society.	
lc		✓ JANSEN, JOHAN F.G.A. et al.: "Effect of Dipole Moment on the Maximum Rate of Photoinitiated Acrylate Polymerizations"; <u>Macromolecules</u> 2002, 35, 7529-7531; 2002 American Chemical Society; Communications to the Editor.	

Examiner Signature	<i>[Signature]</i>	Date Considered	3/15/05
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Sheet 6 of 7

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Lee		✓ CRIVELLO, J. V. et al.: "Structure And Reactivity Relationships In The Photoinitiated Cationic Polymerization Of Oxetane Monomers"; J.M.S.-Pure Appl. Chem., A30(2&3), pp. 189-206 (1993); Marcel Dekker, Inc.	
		✓ MACHIDA, SHIGERU et al.: "The Highly Syn-Selective Michael Reaction Of Enamines With 2-(1-Alkenyl)-1,3-Dioxolan-2-Ylium Cations Generated From 2,2-Dimethoxyethyl 2-Alkenoates <i>In Situ</i> "; Tetrahedron Vol. 47, No. 23, pp. 3737-3752, 1991; 1991 Pergamon Press plc.	
		✓ MOTOI, MASATOSHI et al.: "Preparation of Polyoxetane-Polystyrene Composite Resins and Their Use as Polymeric Supports of Phase-Transfer Catalysts"; Polymer Journal, Vol. 21, No. 12, pp 987-1001 (1989).	
		✓ PATTISON, DEXTER B.: "Cyclic Ethers Made by Pyrolysis of Carbonate Esters"; Orechem Laboratories E.I. DuPont ; January 17, 1957. <i>J. of Am. Chem. Soc.</i> Vol. LXXIX, 3455-3456, July-September 1957.	
		✓ SMITH, TARA J. et al.: "Ring Opening of 2-Ethyl-2-Hydroxymethyl Oxetane Under Basic Conditions"; Polymer Preprints 2002, 43(2), 984, 2002.	
		✓ NISHIKUBO, TADATOMI et al.: "Synthesis of Alternating Copolyesters of Oxetanes With Cyclic Carboxylic Anhydrides Using Quaternary Onium Salts"; Polymer Preprints 2002, 43(2), 1135-1136, 2002.	
Lee		✓ AMASS, A. J. et al.: "Studies In Ring-Opening Polymerization-XII. The Ring-Opening Polymerization Of Oxetane To Living Polymers Using A Porphinato-Aluminum Catalyst"; Eur. Polym. J. Vol. 30, No. 5, pp. 641-646, 1994; Elsevier Science Ltd. 1994.	

Examiner Signature	<i>Lee Chen</i>	Date Considered	3/5/05
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Sheet 7 of 7

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lee		✓ TAKEUCHI, DAISUKE et al.: "Controlled Coordinate Anionic Polymerization of Oxetane by Novel Initiating Systems: Onium Salts/Bulky Organoaluminum Diphenolates"; <u>Macromolecules</u> <u>1996</u> , 29, 8096-8100, <u>1996</u> .	
		✓ KANO, SHIGEYOSHI et al.: "Cationic Monomer-Isomerization Polymerization of Oxetanes Having an Ester Substituent, to Give Poly(orthoester) or Polyether"; <u>Macromol. Chem. Phys.</u> <u>2002</u> , 203, 511-521; <u>Wiley-Vch.</u> <u>2002</u> .	
		✓ KANO, SHIGEYOSHI et al.: "Double Isomerization of Oxetane Amides to Azetidine Esters with Ring Expansion and Contraction"; <u>J. Org. Chem.</u> <u>2000</u> , 65, 2253-2256, 2000 <u>American Chemical Society</u> .	
		✓ KUDO, HIROTO et al.: "Synthesis of a Hetero Telechelic Hyperbranched Polyether. Anionic Ring-Opening Polymerization of 3-Ethyl-3-(hydroxymethyl)oxetane Using Potassium <i>tert</i> -Butoxide as an Initiator"; <u>Short Communications; Polym. J.</u> , Vol. 35, No. 1, <u>2003</u> ; pgs. 88-91, <u>2003</u> .	
		✓ UEYAMA, AKIHIKO et al.: "Preparation of Polyoxetane Resins Having Polyoxirane Segments in the Pendant and Cross-Linking Chains and Uses as Polymeric Solvents for Alkali-Metal Ions"; <u>Polymer Journal</u> , Vol. 34, No. 12, pp 944-953 (2002).	
		✓ SINGHA, NIKHIL K. et al.: "Atom Transfer Radical Copolymerization (ATRCP) Of A Monomer Bearing An Oxetane Group"; <u>Polymer Preprints</u> <u>2002</u> , 43(2), 165, <u>2002</u> .	
lee		✓ SASAKI, H. et al.: "The Synthesis, Characterization, And Photoinitiated Cationic Polymerization Of Difunctional Oxetanes"; <u>J.M.S.-Pure Appl. Chem.</u> , A29(10), pp. 915-930 (1992).	
		✓ Publications by Phillips Concerning Oxetanes. (2)	

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